



# What is Solarize Frederick County?

Solarize Frederick County is a pilot project of Frederick County's Green Homes/Renewable Star Challenge that will increase solar energy generation in Frederick County through rooftop and ground-mounted installation of solar photovoltaic (PV) and solar thermal (hot water system) panels.

Participation in Solarize Frederick County offers significant savings to home owners due to volume purchasing (or leasing), state grants, federal tax credits and incentive grants. See the impacts of these incentives on the back.

Limited number of Solarize incentive grants available:

- for Solar Thermal: \$750 - \$1,000
- for Solar PV: \$2,000 - \$2,500

Higher grant amounts go to households certified as Power Savers in the Green Homes Challenge.

**Certify TODAY!**

## Why the hype about solar power?

- Solar panels that turn the sun's rays into usable energy for your home do not emit harmful greenhouse gases, do not pollute the air or water, nor produce urban smog like other energy sources do.
- Solar energy will help stabilize personal energy costs at a time when Marylanders pay 14% more than the national average.

## What's next?

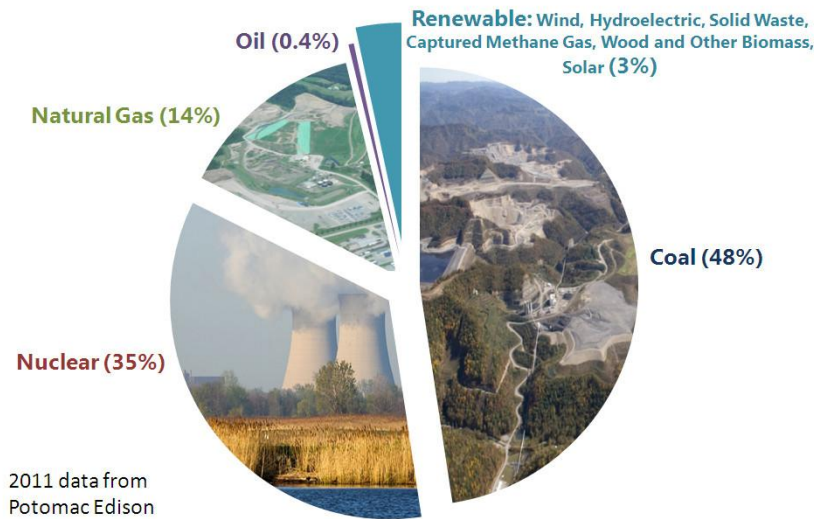
Attend a **Solarize 101 and 201 Workshop**: To register, contact Solarize Coordinator, Lisa Orr, at 301.600.6864 or [LOrr@FrederickCountyMD.gov](mailto:LOrr@FrederickCountyMD.gov).

- May 8 7:00-8:30 PM Solarize 201 with Installers: Shafer's Mill Rec Center, (VOU)
- May 9 6:00-7:30 PM Solarize 101: Common Market Coop (Call 301.663.3416 to register)

Register NOW for the Green Homes Challenge: [www.FrederickCountyMD.gov/GreenHomes](http://www.FrederickCountyMD.gov/GreenHomes)

# How is Maryland powered?

## Future – MD Energy Goals



- 20% renewable by 2022
- 25% less greenhouse gas emissions by 2020 (2006 baseline)
- 15% reduction in per capita energy consumption by 2015 (from 2007 baseline)

## Solarize Frederick County

# Potential Cost Savings

Pro-Forma*	2 kW	4 kW	8 kW	10 kW
Estimated Retail Installed Cost of System	\$13,000	\$20,000	\$32,000	\$39,000
Maximum Solarize FC Volume Purchase Discount	\$5,100	\$5,200	\$4,400	\$4,500
Cost of System after Solarize FC Discount	\$7,900	\$14,800	\$27,600	\$34,500
Solarize \$2,500 Incentive Grant	\$2,500	\$2,500	\$2,500	\$2,500
Maryland State Grant	\$1,000	\$1,000	\$1,000	\$1,000
Federal Tax Credit	\$2,370	\$4,440	\$8,280	\$10,350
Total Discount, Grants and Credits in 1st Year	\$10,970	\$13,140	\$16,180	\$18,350
Net Cost after 1st year discounts, grants, and credits	\$2,030	\$6,860	\$15,820	\$20,650
Estimated Sale of Renewable Energy Credits <sup>1</sup>	\$240	\$480	\$1,080	\$1,200
Estimated Electricity Savings in 1st Year	\$281	\$561	\$1,122	\$1,403
Net cost at end of 1st Year	\$1,509	\$5,819	\$13,618	\$18,047
% of Retail Cost covered by 1st year discounts, grants, savings, and credits	88.4%	70.9%	57.4%	53.7%
Estimated Years 2-7 Electricity savings and REC sales <sup>2</sup>	\$3,080	\$6,085	\$12,229	\$14,964
Estimated Net cost of system at end of Year 7	(\$1,571)	(\$266)	\$1,389	\$3,083
Increased Property Resale Value <sup>3</sup>	\$5,620	\$11,220	\$22,440	\$28,060

\* For illustrative purposes only. A Pro-forma is assumed, forecasted, or informal information. It gives an idea of how the actual finances may look if underlying assumptions hold true. Actual costs and incentives depend upon site conditions and programs that may or may not be applicable to your situation. These pro-formas are not guaranteed and are subject to change without notice. Pro-formas provided by U.S. Photovoltaics, Inc.

\*\* Assumes annual sale at 50% of ACP (Alternative Compliance Payment in the Renewable Portfolio Standards law<sup>39</sup>).

\*\*\* Assumes \$0.11/ kWh in Year 1 and annual increases of 3.5%.

\*\*\*\* Assumes resale value of 20x annual energy savings.